

# LYONS LAB

POND - 115

9795 U.S. Route 20 East • Stockton, IL 61085 \* 815-947-3360

Cold Springs Farms

(b) (6)

Home Owner Cold Springs Farms  
Well ID/Address 115  
Well City HANOVER, IL 61041  
Lab # 10165  
Sample Type Drinking Water  
Collection Date 7/27/2010

Report Date 28-Jul-10

Analyte	Result	Units	LOD	LOQ	Dil	Run Date	Method	Analyst	QC Code
Inorganic									
General									
Nitrate Nitrogen	None Detected	mg/l	0.1	0.31	1	7/28/2010	4500F	JJ	1
NITRATE (as NO <sub>3</sub> +NO <sub>2</sub> )...A small amount of nitrate may be natural; however, elevated levels are an indication of nutrients entering the groundwater due to human activity. The maximum contaminant level set by the EPA is 10 mg/L (part per million). Greater than 2 mg/L is safe for infants but should be monitored. A level of 10 mg/L is considered too high for infants to drink.									
Metals									
Phosphate	40	mg/L	0.3	0.9	1	7/27/2010	300.0	JJ	1
(as Orthophosphate)...Phosphorus occurs in natural waters primarily as phosphates. They can enter surface water or well water from laundry and cleaning waste as surfactants (soaps) and farming operations (as fertilizers). Some phosphates are used in commercial water treatment and others are found in many foods. There is no maximum contaminant level for phosphate in drinking water.									
LOD Limit of Detection			None Detected = Result was less than the LOD				LOQ Limit of Quantitation		

Code	Comment
1	All laboratory QC requirements were met for this sample.

Laboratory Manager

Jennifer Jordan

Please visit our Website at [www.lyons4water.com](http://www.lyons4water.com)

EPA ID # IL 17589 WI DNR Lab Certification # 105010109

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**Wastewater Analysis Report**  
**Lyons Labs**  
Wastewater Laboratory

Collection Date 5/7/10 Collection Time 9:00A Sample Collector (b) (6)

Owner's Name Cold Springs Telephone Number \_\_\_\_\_  
Owner's Address \_\_\_\_\_ Well Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ City \_\_\_\_\_ County \_\_\_\_\_

Test Performed	Collection Points			
	1			
BOD-5	1.7 mg/L			
TSS				
pH				
Ammonia	4.1 mg/L			
Fecal Coliform				
CBOD				
Nitrates	1.6 mg/L			
Phosphates ortho	160 mg/L			
Chlorides				
TDS				
Sulfates *	79.4			
	Bunker Run off			

\* Testing done outside our laboratory

5/7/10 9:45A SD  
Date/Time Received  
5/7/10 10:00A SD  
Date/Time Tested  
5/12/10  
Date/Time Reported  
53008  
Lab Number

**Wastewater Analysis Report**  
**Lyons Labs**  
Wastewater Laboratory

(b) (6)

Collection Date 4/20/10 Collection Time 10:00 A Sample Collect

Owner's Name Cold Springs Telephone Number \_\_\_\_\_  
Owner's Address \_\_\_\_\_ Well Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ City \_\_\_\_\_ County \_\_\_\_\_

Test Performed	Collection Points				
	6	7	8	9	
BOD-5			* 5.9 mg/L	* 3.4 mg/L	
TSS					
pH					
Ammonia			1.3 mg/L	0.4 mg/L	
Fecal Coliform					
CBOD					
Nitrates	* <1 mg/L	* <1 mg/L	2.2 mg/L	2.6 mg/L	
Phosphates					
Ortho / Total	* 0.1 mg/L	* 0.1 mg/L	0.2 mg/L	0.6 mg/L	
Chlorides					
TDS					
Sulfates *	* 35.1 mg/L	* 51.7 mg/L	37.3 mg/L	26.2 mg/L	
	Well at Rock House	Shop	North dry dam	South dry dam	

\* Testing done outside our laboratory

4/20/10 12:25 p JD  
Date/Time Received

4/20/10 1:00 p JD  
Date/Time Tested

4/26/10 3:42 p JD  
Date/Time Reported

**53069**

Lab Number

**Wastewater Analysis Report**  
**Lyons Labs**  
Wastewater Laboratory

Collection Date 4/8/10 Collection Time 9:00 A Sample Collector (b) (6)

Owner's Name Cold Springs Telephone Number \_\_\_\_\_  
Owner's Address \_\_\_\_\_ Well Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ City \_\_\_\_\_ County \_\_\_\_\_

Test Performed	Collection Points			
	Upper Creek 60's	Lower Creek 60's		
	A	B		
BOD-5				
TSS				
pH				
Ammonia				
Fecal Coliform				
CBOD				
* Nitrates	2.2 mg/L	2.6 mg/L		
* Phosphates Ortho	0.5 mg/L	2.4 mg/L		
Chlorides				
TDS				
* Sulfates *	24.3 mg/L	27.2 mg/L		
	UPPER Creek 60's	Lower Creek Bob's		

\* Testing done outside our laboratory

4/8/10 10:00 A JD  
Date/Time Received  
4/8/10 10:30 A JD  
Date/Time Tested  
4/30/10 JD  
Date/Time Reported  
**53068**  
**53068** Lab Number

# Wastewater Analysis Report

Lyons Labs

Wastewater Laboratory

(b) (6)

Collection Date 10/16/09 Collection Time 8:30A Sample Collector [Redacted]

Owner's Name Cold Springs Farm Telephone Number \_\_\_\_\_

Owner's Address \_\_\_\_\_ Well Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ City \_\_\_\_\_ County \_\_\_\_\_

Test Performed	Collection Points			
	5	6	7	8
BOD-5				* 4.0 mg/L
TSS				
pH				
Ammonia				* 3.2 ppm
Fecal Coliform				
CBOD				
Nitrates	* 3.5 mg/L	* < 1 mg/L	* < 1 mg/L	* 1.0 mg/L
Phosphates Ortho / Total	* 0.4 mg/L	* 0.2 mg/L	* 0.5 mg/L	* 0.6 mg/L
Chlorides				
TDS				
Sulfates *	* 35.0 mg/L	* 37.0 mg/L	* 51.9 mg/L	* 22.5 mg/L
	Spring House	Well at Rock House	Shop	North of dry dam

\* Testing done outside our laboratory

10/16/09 9:30A [Signature]  
Date/Time Received

10/16/09 12:15P [Signature]  
Date/Time Tested

10/16/09 3:46P [Signature]  
Date/Time Reported

52598

Lab Number

ORIGINAL

# Wastewater Analysis Report

Lyons Labs

Wastewater Laboratory

Collection Date 10/16/09 Collection Time 8:30A Sample Collect [REDACTED]  
 Site/Station \_\_\_\_\_ Project Cold Springs Farm

Lab Number 52598 Analyst Jennifer Jordan

## 5-Day Biochemical Oxygen (BOD<sub>5</sub>)

Dilution Water Blanks						
Bottle Number	Initial DO reading (D <sub>1</sub> )	Date/Time of reading	Final DO reading (D <sub>2</sub> )	Date/Time of reading	BOD (D <sub>1</sub> -D <sub>2</sub> )	BOD average (<0.2 mg/L)
Blank 1	6.29	7 3:26	6.14	12 3:14	.15	.15

## 5-Day Biochemical Oxygen (BOD<sub>5</sub>)

Environmental Sample							
Bottle Number	Sample Volume (mL)	Initial DO reading (D <sub>1</sub> )	Date/Time of reading	Final DO reading (D <sub>2</sub> )	Date/Time of reading	BOD (D <sub>1</sub> -D <sub>2</sub> /p)	BOD average (<0.2 mg/L)
C1-1	25	6.46	7 3:36	5.64	12 3:24	9.84	9.4
C1-2	25	6.35	7 38	5.61	12 26	8.88	
C2-1	25	6.39	7 40	5.54	12 28	10.20	10.4
C2-2	25	6.24	7 42	5.36	12 30	10.56	
C3-1	25	6.42	7 44	6.04	12 32	4.56	3.8
C3-2	25	6.40	7 46	6.16	12 34	3.00	
C4-1	25	6.40	7 48	6.10	12 36	3.60	5.4
C4-2	25	6.59	7 50	5.99	12 38	7.20	

10/7/09 3:36p 92  
 Date/Time Tested

10/12/09 3:46p 92  
 Date/Time Reported

ORIGINAL

**Monitoring Well Analysis Report**  
**Lyons Labs**  
**Wastewater Laboratory**

(b) (6)

Collection Date 6/8/09 Collection Time 10:00 A Sample Collected                     

Owner's Name Cold Springs Farms Telephone Number                       
 Owner's Address                      Well Address                       
 City                      State                      Zip                      City                      County                     

Test Performed	Collection Points			
	1			
Iron (Fe)				
Hardness				
pH				
Ammonia				
Coliform Bacteria				
Potassium	213.8 mg/L			
Nitrates	0.43 mg/L			
Ortho / Total Phosphates	8 mg/L			
Chlorides				
TDS				
Sulfates *	14.04 mg/L			
Total / Free Chlorine				

\* Testing done outside our laboratory

Pond below 50's

6/8/09 11:30a gcb  
 Date/Time Received  
6/8/09 12:05p gcb  
 Date/Time Tested  
6/11/09 gcb  
 Date/Time Reported  
**52535**  
 Lab Number

# Manure Containment Liquid Level & Berm Inspection Report

Site ID	below 8+9					
Inspection Done By						
Containment ID	Date	Time	Liquid Level	Change from Last	Berm Condition	Comments
2010						
	3-12	9:00	ok		good	NA
	3-12	10:30	ok		good	NA
	4-1	2:00	ok		good	NA
	4-12	10:30	ok		small cut on west	side of berm
	4-12	9:45	ok		" " "	"
	5-3	10:30	ok		good	NA
	5-13	9:30	ok		good	NA
	5-13	2:30	ok		good	NA
	6-3	11:15	ok		good	NA
	6-13	6:45	ok		good	NA
	6-23	7:15	ok		good	NA
	7-2	1:40	3ft level		needs mow	NA
	7-13	4:15	3ft level		needs mow	start pumping
	7-23	3:00	ok		good	NA
	8-2	4:00	ok		good	NA
	8-12	2:30	ok		good	NA
	8-22	8:30	ok		needs mowing	

Note: Use one report sheet per site.



# Manure Containment Liquid Level & Berm Inspection Report

Site ID	115					
Inspection Done By						
Containment ID	Date	Time	Liquid Level	Change from Last	Berm Condition	Comments
2010						
	3-12	7:45	ok		good	NA
	3-22	9:45	ok		good	NA
	4-1	12:30	ok		good	NA
	4-12	9:20	ok		good	NA
	4-22	8:30	ok		good	NA
	5-3	8:45	ok		good	NA
	5-13	6:30	ok		good	NA
	5-23	9:00	ok		good	NA
	6-3	8:30	ok		good	NA
	6-13	10:00	ok		good	NA
	6-23	9:15	ok		good	NA
	7-3	2:15	3ft level		needs more	start pumping
	7-13	4:30	ok		needs more	NA
	7-23	2:00	ok		good	NA
	8-2	2:15	ok		good	NA
	8-12	2:45	start pumping		good	NA
	8-22	1:30	ok		needs more	

Note: Use one report sheet per site.

## Manure Containment Liquid Level & Berm Inspection Report

Site ID	60's					
Inspection Done By						
Containment ID	Date	Time	Liquid Level	Change from Last	Berm Condition	Comments
2010						
	3-17	7:30	OK		good	NA
	3-27	9:30	OK		good	NA
	4-1	12:00	OK		good	NA
	4-17	9:00	OK		good	NA
	4-27	8:00	OK		good	NA
	5-3	7:30	OK		good	NA
	5-13	7:45	OK		good	NA
	5-23	12:30	OK		good	NA
	6-3	9:45	OK		no berm	NA
	6-13	7:30	OK		good	NA
	6-23	7:30	OK		good	NA
	7-3	7:00	OK		weeds w/ hsp	berm marker
	7-13	11:30	OK		good	NA
	7-23	10:45	OK		good	NA
	8-7	12:00	OK		good	NA
	8-17	7:30	start pumping		good	NA
	8-27	1:30	OK		needs mowing	

Note: Use one report sheet per site.

## Manure Containment Liquid Level & Berm Inspection Report

Site ID	Pond by 115					
Inspection Done By						
Containment ID	Date	Time	Liquid Level	Change from Last	Berm Condition	Comments
2009	9/28	1245pm	ok		good	N/A
	10/6	830am	ok		u	u
	10/15	1002am	start pumping		u	u
	10/23	140pm	pumping		u	N/A
	11/4	930am	ok		u	N/A
	11/12	845	ok		u	N/A
	11/21	1030	ok		u	N/A
	11-27	1015am	ok		u	N/A
	12-4	815	ok		u	Froze
	12-11	1130	ok		u	Froze
	12-18	1150	ok		u	Froze
	12-28	730	ok		u	Froze
	1-8	2:45	ok		u	Froze
2010	1-18	10:00	ok		u	Froze
	1-28	930	ok		u	Froze
	2-10	1145	ok		u	Froze
	2-20	940	ok		u	Froze
	3-2	820	ok		u	Froze

Note: Use one report sheet per site.

# Manure Containment Liquid Level & Berm Inspection Report

Site ID	Pond by 50's					
Inspection Done By						
Containment ID	Date	Time	Liquid Level	Change from Last	Berm Condition	Comments
2009	9-28	12:00	OK		good	N/A
	10-5	730am	OK		good	N/A
	10-15	800am	OK		good Just mowed	N/A
	10-23	1200pm	OK		good	N/A
	11-4	800am	OK		u	N/A
	11-12	700am	OK		u	N/A
	11-21	900am	OK		u	N/A
	11-27	1132am	OK		u	na
	12-4	730	OK		u	Froze
	12-11	100pm	OK		u	Froze
	12-18	200pm	OK		u	Froze
	12-28	330pm	OK		u	Froze
2010	1-8	215pm	OK		u	Froze
	1-18	715am	OK		u	Froze
	1-28	1200pm	OK		u	Froze
	2-10	845	OK		u	Froze
	2-20	220	OK		u	Froze
	3-2	735	OK		u	Froze

Note: Use one report sheet per site.